

NZ9 Grade Arizona Summer Cleaner Burning Gasoline (AZRBOB)

(This AZRBOB gasoline is intended for blending with 10% Denatured Fuel Ethanol (DFE) by volume)

Product Property	Method	Minimum	Maximum
Gravity °API @ 60°F	D 287		Report
Octane (after 10% E Fuel ethanol per ASTM D4806)			
RON	D 2699		Report
MON	D 2700		Report
(R+M)/2		87.0	
Oxygen Content, wt % ^{1/}	D 4815		0.05
RVP, psi (E0 not blended)	D 5191		5.70
RVP, psi (E10 blend)	D 5191		7.00
Distillation, °F	D86		
E200, vol %		30	70
E300, vol %		70	100
End Point			430
Benzene, vol%	D 3606		4.9
Aromatics, vol%	D 5769/ D5580		50
Olefins, vol%	D 1319, D6650		25
Corrosion (Cu)3 hrs @ 122°F(50°C)	D 130		1
Corrosion (Ag) 3 hrs @122°F (50°C)	D 7667,7671		1
Mercaptan sulfur, wt.% ^{2/}	D 3227		0.002
Existent Gum, mg/100 ml	D 381		4
Oxidation stability, minutes	D 525	240	
Phosphorous, gms/gal	D 3231		0.003
Lead, gms/gal	D 5059		0.01
Sulfur, ppm	D 5453, D2622		80
NACE	TM0172, D7548	B+	
Haze ^{3/}	D 4176		2
VOC Emission Performance			
Reduction, %		-27.5	
Color			Undyed
Odor	Olfactory		Non-Offensive

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Foot Notes:

- 1/ Total oxygen levels shall not exceed de minimums levels. The use of non-hydrocarbon blending components such as MTBE is prohibited when shipped.
- 2/ Mercaptan Sulfur determination is waived if the result of the Doctor Test ASTM D4952 is negative.
- 3/ Product must be tested at 55°F or tank temperature whichever is lower.

Notes:

- Product must be certified according to current Arizona AZRBOB regulations from a state of Arizona registered supplier.
- All properties other than those noted will be reported on the ethanol 10% hand blend.
- In addition to the above a LPP Product Transfer Document for AZRBOB must be filled out and provided to Magellan Pipe Line Quality Control.
- All gasoline must meet latest revision of ASTM D 4814.
- Corrosion inhibitors, gum inhibitors and metal deactivators must be approved by Magellan Pipeline
- No additives or corrosion inhibitors containing phosphorus may be used in this gasoline.
- The shipment of fuels containing Port Fuel Injector (PFI) and intake valve detergent additives is prohibited. This is a base gasoline, not for sale to the ultimate consumer
- Any gasoline exhibiting an offensive and/or containing more than 0.50wt % dicyclopentadiene will not be accepted for shipment.
- AZRBOB does not comply with the standards for Arizona CBG without the addition of oxygenate.
- This AZRBOB is intended for blending with 10% volume ethanol and may not be combined with AZRBOB's requiring oxygenate blending with any other type or amount of oxygenate.

NZ9 Grade Arizona Summer Cleaner Burning Gasoline (AZRBOB) (continued)

- This product does not meet the requirements for summer reformulated gasoline. Non-additized detergent gasoline, not for sale to the ultimate consumer. AZRBOB does not comply with the standards for Arizona CBG without the addition of fuel ethanol. To be blended with 10 vol % ethanol. This AZRBOB may not be combined with any other AZRBOB that does not have the same requirements for fuel ethanol blended. Base gasoline - must be blended to a minimum 87 road octane (AKI) before sale to the ultimate consumer. Magellan makes no representation as to the ethanol blend state fuel volatility compliance, may require additional downstream blending.